To: Phil North/R10/USEPA/US@EPA[]

From: Gwen Kittel

Sent: Tue 1/4/2011 7:32:26 PM **Subject:** RE: Bristol Bay question

Hi Phil,

Can we talk today at 4 pm MT (that's 2 pm AK time)?

Cheers Gwen

Gwen Kittel Vegetation Ecologist NatureServe, Boulder, Colorado

From: North.Phil@epamail.epa.gov [North.Phil@epamail.epa.gov]

Sent: Monday, January 03, 2011 4:44 PM

To: Gwen Kittel

Subject: RE: Bristol Bay question

Hi Gwen,

Happy New Year to you too.

All the preliminary reports of PLP are on their web site. That is all there is for now.

The TNC meeting went well. The primary accomplishment was figuring out the logistics of getting their information. As it turns out they may not have as much as we thought, but we'll work through that in time. No big data dump.

The rest of the afternoon is filled up with calls. I'll call if one of them is short. Otherwise I will call tomorrow.

Thanks Phil

Phillip North
Ecologist
Environmental Protection Agency
Kenai River Center
514 Funny River Road
Soldotna, Alaska 99669
(907) 714-2483
fax 260-5992
north.phil@epa.gov

"To protect your rivers, protect your mountains."

From: Gwen Kittel < Gwen Kittel @natureserve.org>

To: Phil North/R10/USEPA/US@EPA

Date: 01/03/2011 01:13 PM

Subject: RE: Bristol Bay question

Hi Phil,

Happy New Year.

Can we touch base today about Bristol Bay? According to our contract, the watershed cumulative analysis plan is due this Friday.

Do you have any preliminary reports from the mining company you can send me?

How did your meeting with TNC go? Lets chat soon

Cheers

Gwen

Gwen Kittel NatureServe Boulder, CO 703-797-4812 voice

----Original Message-----

From: Gwen Kittel

Sent: Wednesday, December 22, 2010 10:44 AM

To: 'North.Phil@epamail.epa.gov'
Cc: Hough.Palmer@epamail.epa.gov
Subject: RE: Bristol Bay guestion

HI Phil,

I'm on a call just prior to that time, so I won't be able to phone in,

Let me know what you learn.

Cheers Gwen

Gwen Kittel NatureServe Boulder, CO 703-797-4812 voice

----Original Message----

From: North.Phil@epamail.epa.gov [mailto:North.Phil@epamail.epa.gov]

Sent: Tuesday, December 21, 2010 4:47 PM

To: Gwen Kittel

Cc: Hough.Palmer@epamail.epa.gov Subject: RE: Bristol Bay question

Ex. 5 - Deliberative

We are meeting with TNC next Wednesday (29th) at 10 am AKST to discuss

spatial data. The call in number is Non-Responsive if you want to participate. I won't have anything from them before that.

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From: Gwen Kittel <Gwen_Kittel@natureserve.org>

To: Phil North/R10/USEPA/US@EPA
Cc: Palmer Hough/DC/USEPA/US@EPA

Date: 12/21/2010 01:33 PM

Subject: RE: Bristol Bay question

Hi Phil,

Can you send me any of those preliminary reports? Who are you working with at TNC? This will help us get up to speed on the background information.

And yes we'd want watershed-wide and multi impact threats to be treated. Geographic question for you, It looks to me like reasonable boundaries for our assessment area would encompass Four 8 digit USGS HUCs 19030302-- Mulchatna River 19030303- Lower Nushagak River 19030205 - Lake Clark 19030206- Lake Iliamna

These boundaries are attached as jpgs, but you can view them on line at http://water.usgs.gov/wsc/sub/1903.html

Cheers Gwen

Gwen Kittel NatureServe Boulder, CO 703-797-4812 voice

----Original Message-----

From: North.Phil@epamail.epa.gov [mailto:North.Phil@epamail.epa.gov]

[&]quot;To protect your rivers, protect your mountains."

Sent: Monday, December 20, 2010 3:23 PM

To: Gwen Kittel

Cc: Hough.Palmer@epamail.epa.gov Subject: Re: Bristol Bay question

Hi Gwen.

I would be interested in being trained so I can do analysis. It might also be useful to have the UAA folks trained. Becky, who is working with Dan, has GIS expertise so once the system is set up she may be able to be the technician who runs scenarios.

We have some geochemical data and some hydrologic data from the company and expect to get more in January. There may be a fine scale DEM included as well. But there is more threat here than the one mine. And we would like to look at more than mining. So yes, we would like to look at the watershed as appropriate for each threat.

The mining company, with the currently proposed mine, submitted a plan in 2006. Then they discovered the deposit was much bigger. They withdrew that proposal and have not submitted a new plan. We don't expect to get a new plan until 2012.

That is not to say we have no information. There is a plan for state roads published in the State of Alaska's Bristol Bay Area Plan. This is essentially a roadless area so all proposals are for new roads. I hope that will be useful. For mining we have the elements of the 2006 proposal (mine, waste facilities, road, pipeline and port). We know where, or can find out where, other exploration is occurring in the watershed. And we know a lot about mining technology. We also plan to comb the Corps of Engineers historic files to see what other activities have occurred in the watershed that we might consider a threat to salmon resources.

TNC has spatial data that they are willing to share. But I do not know what is included.

Do we need to discuss all this on a call?

Phil

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From: Gwen Kittel < Gwen Kittel@natureserve.org>

[&]quot;To protect your rivers, protect your mountains."

To: Phil North/R10/USEPA/US@EPA, Palmer

Hough/DC/USEPA/US@EPA

Date: 12/20/2010 11:47 AM
Subject: Bristol Bay question

Hi Phil,

For the Bristol Bay Cumulative watershed analysis, would you be interested in being trained so you can add data and run scenarios vourself?

We can include training and data transfer as part of the proposal. Or would you prefer a one-time analysis that we do for you?

Also, have you any idea what data may be available from what the mine company as collected? We are assuming that what they do have would be limited to the mine location and immediate surrounding environs, nothing watershed-side.

We'll also need the proposed mine footprint and depth, and the infrastructure they plan to build to serve the mine. Do you have access to any of that type of basic information?

Cheers, Gwen

Gwen Kittel NatureServe Boulder, CO 703-797-4812 voice

----Original Message-----

From: North.Phil@epamail.epa.gov [mailto:North.Phil@epamail.epa.gov]

Sent: Monday, December 20, 2010 1:18 PM To: Gwen Kittel; Hough.Palmer@epamail.epa.gov

Subject: Fw: Mining Experts

Gwen and Palmer,

Here are some names of mining experts suggested by Dave Chambers.

Phillip North
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[&]quot;To protect your rivers, protect your mountains."

---- Forwarded by Phil North/R10/USEPA/US on 12/20/2010 11:17 AM -----From: "David Chambers" <dchambers@csp2.org> To: Phil North/R10/USEPA/US@EPA 12/20/2010 10:51 AM Date: Subject: Mining Experts Phil: Sorry to be so long in coming up with a couple of names, but I wanted to get you some quality recommendations that you could use. Johnnie N. Moore, Professor of Geosciences, University of Montana, Missoula, MT Email: Ex. 6 - Personal Privacy http://www.umt.edu/geosciences/faculty/moore/J_N_Moore_WebPage/J_N_Moore_WebPage.html David A. Dzombak Civil & Environmental Engineering Carnegie Mellon University Pittsburgh, PA Email: dzombak@cmu.edu See: http://www.ce.cmu.edu/people/faculty/dzombak.html Dave

[attachment "Bristol Bay Study Area 8 digit Hucs.docx" deleted by Phil North/R10/USEPA/US]